LITVINENKO, V. I.; MAKSYUTINA, N. P.; KOLESNIKOV, I. G.

Flavonoid compounds of Glycyrrhina glabra L. Zhur. ob. khim. 33 no.1:296-299 '63. (MIRA 16:1)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsév-ticheskiy institut.

(Flavonoids)

MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Flavonoids of parsnip fruit (Pastinaca sativa L.). Dokl. AN SSSR 142 no.5:1193-1196 F 162. (MIRA 15:2)

1. Khar kovskiy nauchno-issledovatel khimiko-farmatsevticheskiy institut. Predstavleno akademikom A.I.Oparinym.

(Flavonoids)

(Parsnip)

LITVINENKO, V.I.; MAKSYUTINA, N.P.; KOLESNIKOV, D.G. Production of a polyamide sorbent. Med. prom. 16 no.3:40-43 Mr 162. (MIRA 15:5) 1. Khar kovskiy nauchno-issledovatel skiy khimio-farmatsevticheskiy institut. (SORBENTS) (POLYMIDES)

MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Furocoumarins in some types of Pastinaca sativa. Med. prom.
16 no.2:11-14 F '62. (MIRA 15:3)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. (FARSNIPS)
(FUROCOUMARIN)

MAKSYUTINA, N.P.; KOLESNIKOV, D.G.

Kanthotoxin form parsnip fruits. Zhur. ob. khim. 31 no.4:1386-1389 Ap '61. (MIRA 14:4)

1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut.

(Parsnips) (Xanthotoxin)

Furocoumarins in the Fruits of Pastinaca Sativa L.

sov/20-124-6-42/55

Their biological properties, however, are opposite.

An experimental section presents the usual data. There are

1 table and 12 references, 1 of which is Soviet.

ASSOCIATION:

Khar*kevskiy nauchno-issledovatel*skiy khimiko-

farmatsevticheskiy institut (Khar'kov Scientific Chemico-

pharmaceutical Research Institute)

PRESENTED:

November 3, 1958, by A. I. Oparin, Academician

SUBMITTED:

November 3, 1958

Card 3/3

Furocoumarins in the Fruits of Pastinaca Sativa L.

SOV/20-124-6-42/55

(substances (1), (7), (5) and (6)) or an opposite effect (substances (2) and (8)). All 7 substances form the furandicarboxylle acid owing to exidation with $\rm H_2O_2$ and contain a

commarises lastone the ring of which opens in alkaline medium and aloses again in an acid one. These data (in addition to other physicischemical ones) permit the conclusion that the substances under review belong to the group of natural furctionaries (Table 1). (1),(2),(5) and (6) are identical with the known furctionaries: imperatorin (II), bergaptene (III), isopimpinellin (IV) and xanthotoxol (V), respectively. This was confirmed by the production of several derivatives. The remaining substances: Pastinazine (3) and (7) could not be identified with any of the furceounaries known so far. It may be seen from table I that they are very similar to substance (2) and, furthermore, they have identical R_f values in the chromatograms of 8 solvents investigated.

Card 2/3

17(3) AUTHORS:

Maksyutina, N. P., Kolesnikov, D. G.

SOV/20-124-6-42/55

TITLES

Furceoumarins in the Fruits of Pastinaca Sativa L. (Furokumariny plodov pasternaka posevnogo Pastinaca sativa L.)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1335-1338

(USSR)

ABSTRACT:

The application field of Pastinaca and P. opopanax are presented (Refs 1-8). The authors investigated the spasmolytic effect of the substances contained in the seed of Pastinaca (of the variety Student from the Krasnodar and Stavropol' area) by chromatographic separation (Ref 9). They could isolate 7 exystalline substances. One of these substances called pastinazine by the authors exerted a pronounced spasmolytic effect and caused a vasodilatation in the heart, liver, kidneys and other internal organs in concentrations of 1.10-7 (Ref 10). It can be used in the treatment of some kinds of stenocardia (clinical investigations were performed by M. I. Shubov, Khar'kov, M. I. Zelotova-Kostomarova, Moscow, and S. N. Simel'nikov, Khar'kov). Some other substances obtained from Pastinava seed exerted either a shorter

Card 1/3

79-28-5-62/69

Cardiac The Glycosides in the Seeds of Treacle-Mustard (Erysımum cheiranthoides L.

> portant active substance of the seeds. According to the stated physico-chemical data erysimotoxin posseses an aldehyde group, two secondary and two tertiary hydroxyl groups, and one unsaturated lactone cycle of five links. Its sugar component is represented by one molecule of the 2-deoxy-sugar in the paper chromatographs this component proved identical with digitoxose. According to the investigations of the glycoside, its acetyl derivative, its aglycone (the nonsugar component), and its sugar component, the mentioned structure can be attributed to erysimotoxin (see diagrams). Erysim is chemically a glycoside with a five-member lactone ring without 2-desoxy sugar Thus altogether ten glycosides were found in the seeds. There are 3 figures and 10 references, 9 of which are Soviet.

ASSOCIATION:

Khar'kovskiy nauchno-issledovatel sky khimiko-farmatsevticheskiy

institut (Khar'kov Scientific Chemical and Pharmaceutical Research Institute)

SUBMITTED:

March 30, 1957

Card 2/2

AUTHOR:

Maksyutina, N. P

79-28-5-62/69

TITLE:

Glycosides in the Seeds of Treacle-Mustard (Erysimum cheiranthoides L.) (Serdechnyye glikozidy semyan zheltushnika levkoynogo (Erysimum cheiranthoides L.))

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 5,

pp. 1383 - 1387 (USSR)

ABSTRACT:

In the present paper the author tried to investigate the proportion of glycosides in the seeds of treacle-mustard and to separate the most active one of them in crystalline state. In this investigation of the seeds by means of paper chromatography seven glycosides were found in more or less considerable quantities and three in small traces. By means of mild fermentative cleaving the author succeded in separating from the seeds two glycosides in crystalline state with melting points of 196-1970 and 224-2260C. The first named "Erysimotoxin" was obtained in a yield of o. 1%. Both glycosides are of high biologic activity and exceed in intensity strophantine, zymarine, digitoxin, convalloside and other well-known cardiac glycosides. The high biologic activity and the comparatively high yield of erysimotoxin allows to refer to it as to the most im

Card 1/2

MAKSYUTINA, N.P., KOLESNIKOV, D.G. Chromatographic method for obtaining pastinacin. Med.prom. 12 (MIRA 11:7) no.6:12-16 Je '58 1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. (PARSN IP) (EXTRACTION (CHEMISTRY))

KOLESNIKOV, D.G., MAKSYUTINA, N.P., BEZRUK, P.I. Spasmolytic substances from parsley seeds. Apt.delo 7 no.4:27-30 J1-Ag'58 (MIRA 11:8) (ANT ISPASMODICS) (PARSLEY)

MAKSYUTINA N.P.

USSR/Cultivated Plants - Medicinal. Essential Oil-Bearing.

Toxins.

: Ref Zhur Biol., No 18, 1958, 82580 Abs Jour

: Kolesnikov, D.G., Maksyntina, N.P. A thor

List

Title : Cardiac Glycosides of the Leaves of the Platns Erysimum

(Cheiranthus allionii Hofm.).

: Med. prom-st' SSSR, 1957, No 12, 27-30 Orig Pub

: No abstract. Abstract

Card 1/1

USSR/Pharmacology and Toxicology. Cardiovascular Agents

V**-**5

Abs Jour : Ref Zhur - Biol., No 15, 1958, No 71216

Author : Kolesnikov D.G., Maksyutina N.P.

Inst:

Title : Cardiac Glycosides from Seeds of Cheiranthus Allionii Hofm.

Orig Pub :Med. prom-st' SSSR, 1957, No 9, 14-18

Abstract : Λ composite glycoside preparation, corchallin, and crystalline glycoside alliozid Λ , were obtained from seeds of

Cheiranthus Allionii Hofm. The aglycone of alliozid Λ was identified as strophanthidin. The sugar component of glycoside is identified by one molecule of 2-desoxy-sugar.

-- From the authors' summary.

Kharikov Sei Res Chem. Phurm. Inst.

Card : 1/1

小手 机电弧接触 医外侧性小脑外上 医二甲甲二甲二烷 医二氏性 医手术 医二氏虫

USSR / Pharmacology, Toxicology. Cardiovascular Drugs. V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42380.

Author: Kolesnikov, D. G.; Maksyutina, N. P.

Inst : Not Given.

Title : The Preparation of Convalloside from the Seeds of

Convallaria.

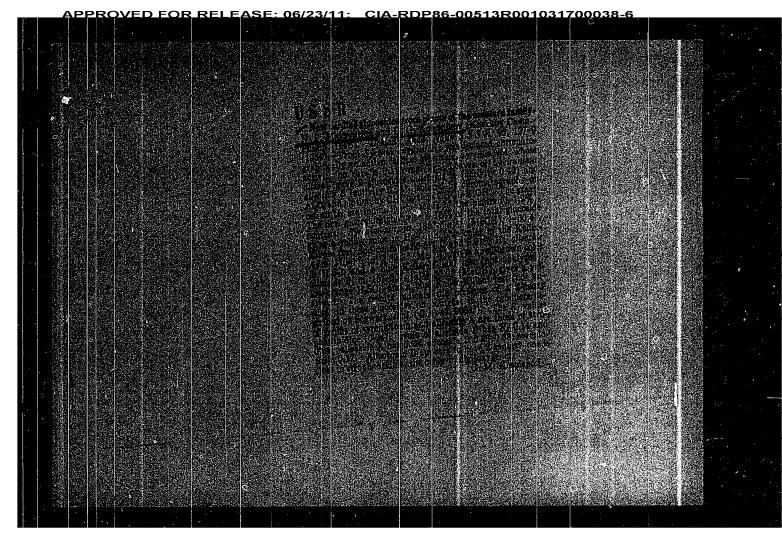
Orig Pub: Med. Prom-st SSSR, 1957, No 6, 38-40.

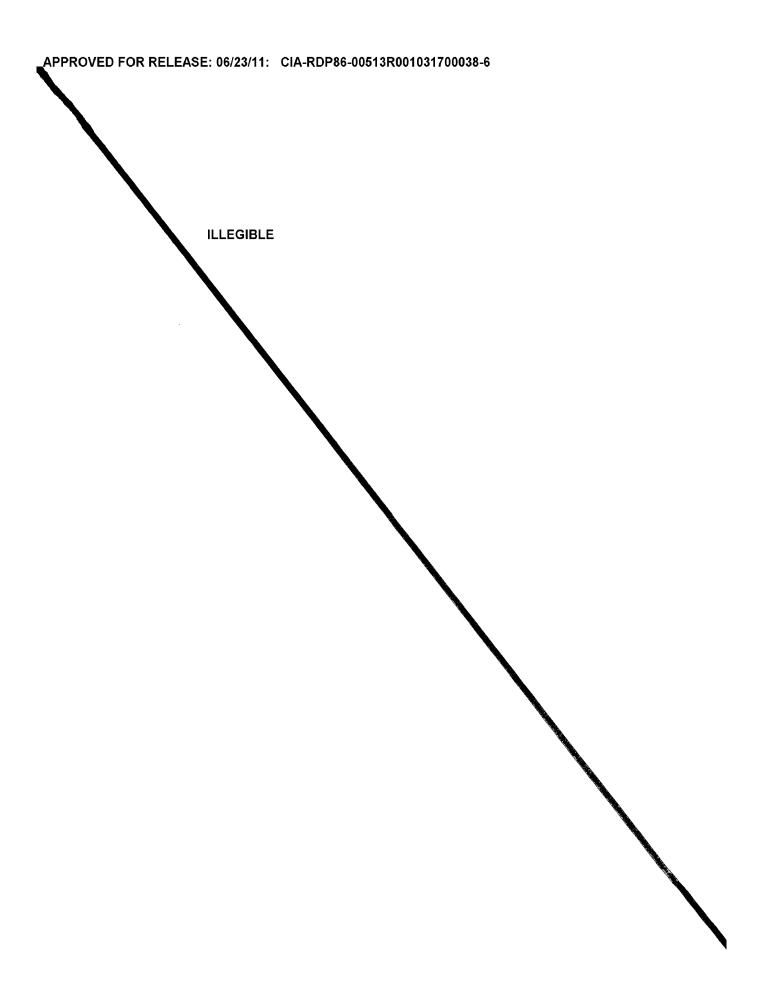
Abstract: Convalloside, a highly active crystalline cardiac glycoside, was extracted from the seeds of convallaria. According to pharmacological and clinical

data, its action is close to strophantin.

Kharkov Sei Res Chem. Phuem Inst.

Card 1/1





MAKSYUTINA, N.P.

"The Possibility of the Complex Utilization of Pine Needles for the Preparation of Vitamin C and Carotin Concentrates." Cand Pharm Sci, Latvian State U, Riga, 1954. (RZhKhim, No 7, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16)

MAKSYUTINA, N. P.

"Extraction and Chemical Study of Cardiac Glycosides From the Harrow-Leaved Lilac." Cand Pharm Sci, Moscow Pharmaceutical Inst, Moscow, 1954. (MR, 12 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

S0: Sum. No. 521, 2 Jun 55

MAKSYUTINA, N.P. Cardiac glycosides in plants of the genus Syrenia. Dokl. AN SSSR 158 no.4:977-980 0 '64. (MIRA 17:11) (MIRA 17:11) 1. Khar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut. Predstavleno akademikom A.I. Oparinym.

L 27451-66

ACC NR AP5025962

of the saponified copolymers was found to depend on the amount of I and on the degree of saponification of the copolymer. Copolymers made from 5% of I in the initial reaction mixture have the greatest exchange capacity (9 mg. equiv/gm) and show high resistance to hydrolysis in 5% mineral acid and alkali solutions. "In conclusion we thank V. A. Sheveley for obtaining the IR spectra." Orig. art. has: 3 tables and 1 figure.

SUB CODE: MT, OC/ SUBM DATE: 18 Nov64/ ORIG REF: 006/ OTH REF: 000

cord 2/2 - 2/2

ACC NR: AP5025962 SOURCE CODE: UR/0190/65/007/010 Bodyukh L. Ya.; AUTHOR: Kalabina. Yu. K. ORG: Irkutak State University (Irkutakiy gosudarstvennyy universitet TITLE: Investigations in the polymerization and copolymerization of rinvlaryl ethers and their derivatives. Report No. 6. Copolymerization of hydroquinone dimethyl ether with methylmethacrylate TOPIC TAGE: methylmethacrylate, alkeryl ether, copolymerization, radical polymerization, copolymer, ion exchange resin, polymer structure ABSTRACT: The copolymerization of hydroquinone dimethyl ether (I) with methylmethacrylate (MMA) was investigated. Bulk polymerization of 1-20% I with 99-80% MMA initiated by azobisisobutyronitrile gave 20% yields of cross-linked polymers whose ether linkage content increased

with initial amount of I. Benzoyl peroxide initiated suspension copolymerization was carried out. The use of a combination of starch and talcum as suspension stabilizers was required in order to form copolymer granules. High copolymer yields (88%) were obtained when a 1:3 ratio of monomer mixture: water was used. The static exchange capacity

TIDG:

66.095.26+678.744+678.746

WW/RM

RPL

Card 1/2

L 27451-66 EWT(m)/EWP(j)/T

KALABINA, A.V.; KOLMAKOVA, E.F.; BYCHKOVA, T.I.; MAKSYUTIN, Yu.K.; DENISEVICH, E.A., SMOLINA, G.J. Substituted vinyl and ethyl aryl others. Part ls Reaction of phenyl sulfenyl chloride with vinyl aryl ethers. Zhur. ob. khim. 35 no.6:979-982 Je 165. (MIRA 18:6) 1. Irkutskiy gosudarstvennyy universitet.

KALABINA, A.V.; TSARIK, L.Ya.; BODYURH, L.A.; MAKSYUTIN, Yu.K. Capalymerization of hydroquinone divinyl ether with methyl mathacrylate. Vysokom. seed. 7 no. 10x1758-1762 0 165. (MIRA 18811) 1. Exrutskiy gosudarstvennyy universitet.

KALABINA, A.V.; BYCHKOVA, T.I.; MAKSYUTIN, Yu.K. Synthesis and transformations of halo-substituted vinyl arylethers. Part 1: Cis- and trans- \$ -- chlorovinyl arylethers.

Zhur. org. khim. 1 no.8:1406-1411 Ag '65. (MIRA 18:11) 1. Irkutskiy gosudarstvennyy universitet.

MAKSYUTIN, Yu.K.; FROLOV, Yu.L.; KALABINA, A.V.; SHEVELEVA, V.A. Hydrogen bonding between phen is and viryl and arriethers. Zhur.fiz.khim. 38 no.11:2604-2607 N 164. (Mi (MIRA 18:2) 1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova.

MAKSYUTIN G.V.

Country : USSR

Category: Plant Diseases. Diseases of Cultivated Plants.

Abs Jour: RZhDiol., No 18, 1958, No 82665

Author : Trunov, G.A.; Maksyutin, G.V.
Inst : Khar kov Agricultural Institute

Title : Extremely Low Temperatures and Smut in Wheat and

Onions.

Orig Pub: Zap. Khar'kovsk. s.-kh. in-ta, 1957, 13 (50), 117-121

Abstract: In 1954 an experiment was conducted to examine the possibility of finding a cure for loose smut in summer wheat by means of 3- and 4-hour treatment of the grain in chambers at low temperatures (-70 degrees) and in containers (?) with liquid nitrogen (-196 degrees). Treat-

ment of the dry grain with these temperatures did not

0

Card : 1/2

MAKSYUTENKO, I.N., inzhener-konstruktor UShP-300 automatic winding machine. Tekst.prom. 21 no.7:33
J1 '61. (MIRA 14:8) (Textile machinery)

L 04226-67

ACC NR: AR6031854

and charge distribution in the initial fragments at the given neutron energies, as well as the measurement of absolute yields of the delayed neutrons. V. Pavlinchuk. [Translation of abstract]

SUB CODE: 18, 20/

Cord 2/2 plas

L 04226-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AR8031854

SOURCE CODE: UR/0058/66/000/006/V020/V020

AUTHOR: Maksyutenko, B. P.

19 27

TITLE: Delayed neutrons and (n, nf) reaction on uranium isotopes

 \mathcal{B}

SOURCE: Ref. zh. Fizika, Abs. 6V163

REF SOURCE: Byul. Inform. tsentra po yadern. dannym, vyp. 2, 1965, 161-166

TOPIC TAGS: delayed neutron, fission neutron yield, uranium isotope, accelerator/Van de Graaf accelerator

ABSTRACT: Fission yields of delayed neutrons were measured during fission of U²³³ by neutrons with energies of 2.3, 5.6 and 7.25 Mev and of U²³⁵ by neutrons with an energy of 7.22 Mev. Experiments were made on a Van de Graaf accelerator with tritium and deuterium targets. A smooth variation in the yield ratio of delayed neutrons between the various cross-section plateaus, as well as abrupt jumps especially in the case of yields of delayed neutron groups with half-decay periods of 2.2 and 55 sec, were observed. The possible causes of yield ratio variations due to reaction (n, n'f) are analyzed. It is stressed that an interpretation of the results obtained necessitates the investigation of corresponding mass

Card 1/2

L 27478-66 A16008421 ACC NR: in the fission cross section of Th-232 a charge in the maximum energy of the newtrons by an amount equal to the halfwidth of the spectrum or even less (200-500 kev) gives rise to a noticeable change in the ratio of the group yields, even for a small halfwidth of the neutron spectrum (500 kev). The results are presented in tabular form and in the form of a graph. Orig. art. has: 1 figure and 2 tables. SUB CODE: 20/ SUBM DATE: 00/ OTH REF OOL **Card 2/2**

L 27478-66 = EWT(n)/EPF(n)-3/EWA(h)

ACC NR: AT6008421

SOURCE CODE: UR/3158/65/000/026/0001/0004

AUTHOR: Maksyutenko, B. P.

org: None.

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362

TITLE: Delayed neutrons at the fission threshold of throium-232

SOURCE: Obninsk. Fiziko-energeticheskiy institut. Doklady, no. 26, 1965. Zapazdyvayushchiye neytrony u poroga deleniya toriya-232, 1-4

TOFIC TAGS: uranium, thorium, fission cross section, slow neutron

ABSTRACT: This is a continuation of earlier work by the author (Symposium on the Physics and Chemistry of Fission, Salzburg, 22-26 March, 1965, SM-60/84) where it was shown that the yield ratio changes abruptly at the threshold of U-238 fission. Since the fission cross section of Th-232 near threshold is not a continuous function as for U-238 but has several maxima and minima, the author has measured the yield of the delayed neutrons of energy 1.6-2.6 Mev obtained in the reaction $T(p,n)He^3$ with a Van der Graaff generator. The decay curves were processed with an electronic computer. The results show that in the vicinity of the first step

Card 1/2

/L 6172-66 EWT(m)/EPF(n)-2/EWA(h) DM ACCESSION NR: AP5019813

UR/0089/65/019/001/0046/0046 539.125.5:539.163.1 a.

AUTHOR: Maksyutenko, B. P.

TITIE: Relative yields of delayed neutrons in the fission of U235 and U238

SOURCE: Atomnaya energiya, v. 19, no. 1, 1965, 46

TOPIC TAGS: neutron flux, slow neutron, nuclear fission, neutron interaction, enriched uranium, half life

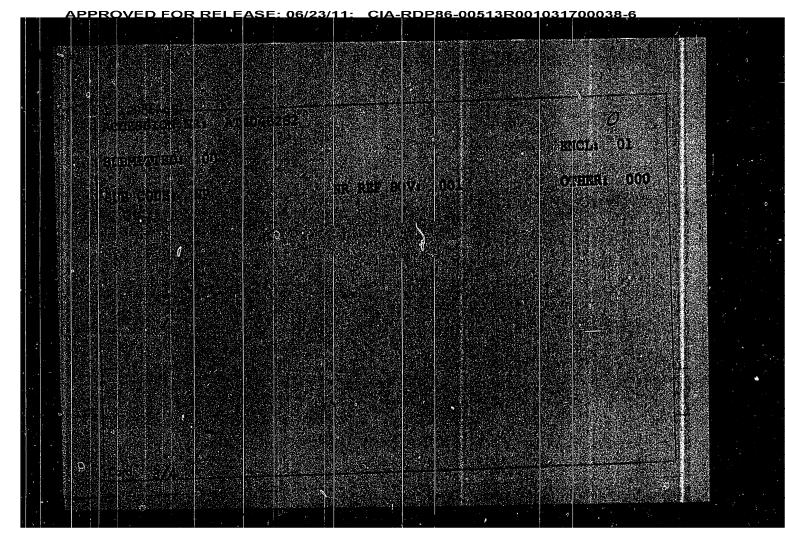
ABSTRACT: The maximum fissioning-neutron energy was 6.0 Mev. A metallic sample of uranium, enriched to 90% U²³⁵, was used. The over-all decay curve was obtained by making 20 runs and contained 700,000 counts. The resolution was by means of an electronic computer, using the matrix inversion method for specified half-life values. The measurements, like those previously made by the author (ZhETF v. 35, 815, 1958), point to a smooth variation of the yields with the fissioning-neutron energies. In the case of U²³⁸ the sample was irradiated with neutrons of maximum energy 1.75 Mev, from the T(p, n)He³ reaction in a Van de Graaff accelerator. In this case the results differ from earlier data, probably owing to channel effects. The results are listed in the Enclosure. Orig. art. has: 2 tables.

ASSOCIATION: none

Card 1/3

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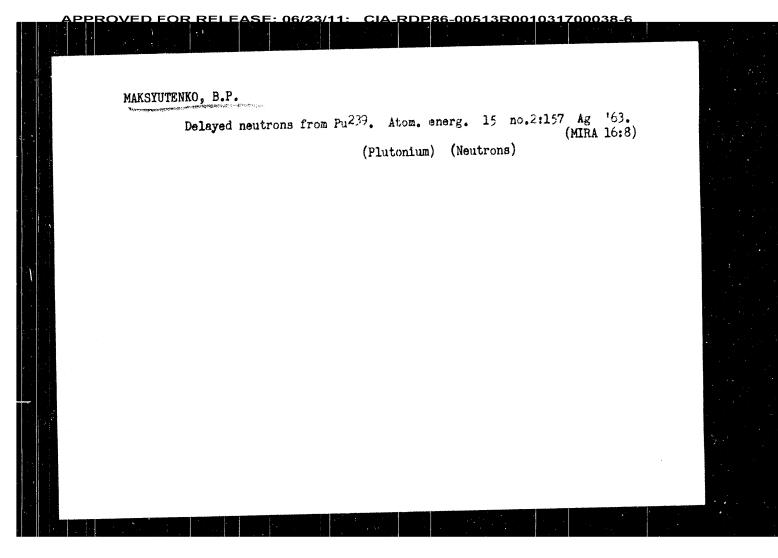
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MAKSYUTENKO, B. P. "Measurement of the ratio of the yields of groups of delayed neutrons on the magnitude of the energy of the neutrons causing fission in U-235." report submitted for IAEA Intl Nuclear Data Sci Working Group Mtg, Vienna, y-13 Nov 64.

MAKSYUTENKO, B.P. Lagging neutrons from U233 fission by 15 MeV. neutrons. Atom. energ. 15 no.4:321-322 0 '63. (MIRA 16:10)



MANGARITHMAN D. D. Comd Dhora Noth Soi - (disc) Mahsolute and reletive vields

MAKSYUTENKO, B. P. Cand Phys-Meth Sci -- (diss) "Absolute and relative yields of delayed neutrons during the fission of 238 uranium, 235 uranium, and 232 thorium by fast neutrons." Mos Printing house of MIPHI Mos Physics and Engineering 1959. 19 pp , 100 copies. Bibliography: pp 18-19 (19 titles) (KL, 44-59, 125)

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700038-6

SOV/56-35-3-53/61 The Belative Yields of Delayed Neutrons in the Fission of $\rm U^{238}, \rm U^{235}$ and Th 232 on Fast Neutrons.

tically no background. The decay curves for one and the same element which were determined by various experiments are united into a single curve. Five groups of delayed neutrons were distinguished. A sixth group was not determined separately because of its low intensity and short life. All curves were calculated by the method of the smallest squares; measuring results are given by a table. The author thanks 0. D. Kazachkovskiy for valuable directions and for his interest in this work. There is 1 table.

Card: 2/2

Maksyutenko, B. P.

sov/56-35-3-53/61

TITLE:

The Relative Yields of Delayed Neutrons in the Fission of U^{238} , U^{235} and Th^{232} on Fast Neutrons (Otnositel'nyye vykhody zapazdyvayushchikh neytronov pri delenii U^{238} , U^{235} i Th 232

na bystrykh neytronakh)

PERIODICAL:

Zhurnal eksperimental'noy i theoreticheskoy fiziki, 1958,

Vol 35, Nr 3, pp 815-816 (USSR)

ABSTRACT:

The present paper contains a report on the measurements carried out of the relative yields of delayed neutrons in $_{232}$ the fission of natural uranium, U $_{232}$ (90% enriched) and Th by neutrons having an energy of 15,0+0,9;3,3+7 and 2,4+ 0,3 MeV. The 15,0 MeV neutrons were produced by bombarding a thick tritium target with 440 keV deuterons. The reaction D(d,n)He served as a source of the neutrons with 3,3 and 2,4 MeV. Also gauging was carried out on thermal neutrons. As detector, a block with four counters with BF3, was used, which were connected in parallel and were surrounded by paraffin. Two series of irradiations lasting 300 and 30 seconds respectively were carried out. Measurement took 360

and 30 seconds respectively. During measurements there was prac-

Card 1/2

Maksyutentio, 17. MAKSYUTENKO, A., inzhener Improving the design of the K-80 carburetor. Avt.transp.33 no.8: 32 Ag'55. (MIRA 8:12) (MLRA 8:12) (Automobile--Engines--Carburetors)

MAKSYUTA, V.I., kand.tekhn.nauk Complete automation of the production of soda ash.
no.5:517-523 '61.
(Automatic control) (Sodium carbonate) Zhur.VKHO 6 (MTRA 14:10) APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700038-6

5(1)

SOV/112-59-3-5624

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 3, p 193 (USSR)

AUTHOR: Maksyuta, V. I.

TITLE: Automation of the Soda Industry (Avtomatizatsiya sodovogo proizvodstva)

PERIODICAL: V sb.: Avtomatiz. khim. i koksokhim. proiz-v. M., Metallurgizdat, 1958, pp 108-130

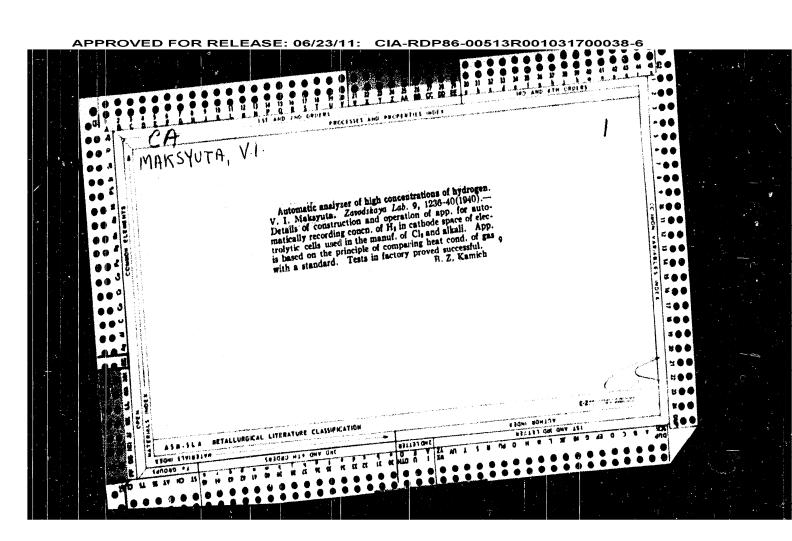
ABSTRACT: General principles of automation of the soda industry are considered. Examples are cited illustrating the methods developed by NIOKhIM of complex automation systems for technological divisions and departments of a soda plant. Eight illustrations. Bibliography: 7 items.

Card 1/1

MAKSYUTA, V. I. -- "Complex Automatization of a Station of a Soda Carbonization Plant." Min Higher Education USSR, Khar'kov Polytechnic Instiment V. I. Lenin, Khar'kov, 1955 (Dissertation for the Degree of Candidate in Technical Sciences)

S0: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

MAKSYUTA, V. I. Maksyuta, V. I. - "The work of the Laboratory for Automatization", Trudy Vsesoyuz. in-ta sodovoy prom-sti, Vol. 7, 1949, p. 18-23.



APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700038-6

VOLCHENKO, V.V.; MAKSYUTA, I.M.

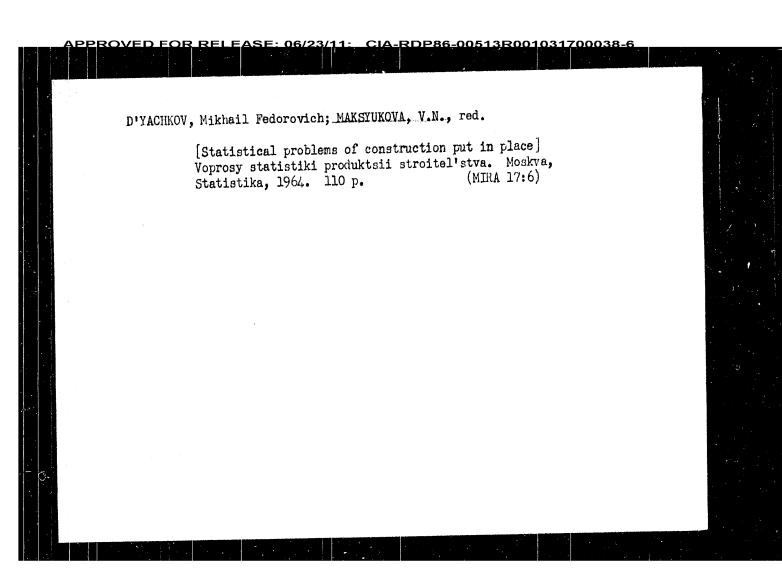
Contribution by the machine operators of interdistrict units.

Zashch.rast.ot verd.i bol. 7 no.4:7-8 Ap '62. (MIRA 15:12)

l. Obshchestvennyy korrespondent zhurmala "Zashchita rasteniy" (for Volchenko). 2. Nachal'nik Buranovichskogo otryada po bor'be s vreditelyami i boleznyami rasteniy (for Maksyuta).

(White Bussia—Spraying and dusting equipment)

CIA-RDP86-00513R001031700038-6 STOINAROV, Sergey Grigor'yevich; MAKSYUKOVA, V.N., red.; PYATAKOVA, N.D., tekhn. red. [Prices and price determination in the U.S.S.R.; essays in statistics and economics] O tsenakh i tsenoobrazovanii v SSSR; statistiko-ekonomicheskie ocherki. Izd.2., dop. i pe-(MIRA 17:3) rer. Moskva, Gosstatizdat, 1963. 215 p.



MARIN, Lev Georgiyevich; MAKSYUKOVA, V.N., red.; IL'YUSHENKOVA, T.P., tekhn. red. [How to calculate the national income of the U.S.S.R.] Kak ischisliaetsia natsional'nyi dokhod SSSR. Moskva, Gosstatizdat, 1963. 67 p. (MIRA 17:1) (Income)

MAKSYUK, I.Yu., brigadir chekanshchikov Pipe beading operations. Metallurg 8 no.7:12-14 J1 '63. (MIRA 16:8) l. Domennoy tsekh zavoda "Zaporozhstal"."
(Blast furnaces—Maintenance and repair)

APPROVED FOR RELEASE: 06/23/11:_ CIA-RDP86-00513R001031700038-6

ACC NR. AR6035427

SOURCE CODE: UR/0137/66/000/009/1071/1071

AUTHOR: Zhmuds'kyy, O. Z.; Kulichenko, V. P.; Maksymyuk, P. O.

TITLE: Study of the microsturcture of Al-Cu-Ni alloys

SOURCE: Ref. zh. Metallurgiya, Abs. 91467

REF. SOURCE: Visnyk Kyyivs'k. un-tu. Ser. fiz. ta khim., no. 6, 1966, 10-11

TOPIC TAGS: aluminum alloy, copper containing alloy, nickel containing alloy, metal grain structure, grain size, metal heat treatment

ABSTRACT: Ingots of alloys of Al with 4% Cu and 0 - 2% Ni were deformed and annealed at 400° for 10 hours. The microstructure was investigated after annealing at 400°, quenching from 540°, and natural and artificial aging. With increase of the Ni content, the grain size decreases, and the boundaries expand and lose their continuity. The grain size and the state of the boundaries are practically unaltered by heat treatment. The decrease in the grain size is connected with the fact that Ni decreases the grain energy. From the Resume. [Translation of abstract]

SUB CODE: 11

grd 1/1 UDC: 669.715'3'24:620.18

MAKSYMOWICZ_MILOSZ, Elzbieta; HILGERTNEE, Leszek

Covar and covar glass in Poland and abroad. Przegl elektroniki 2 no.7:
425-441 '61.

1. Przemyslowy Instytut Elektroniki(for Maksymowicz-Milosz) 2. Zaklady
Szklarskie - Ozarow, Biuro Rozwojowe(for Hilgertner)

(Fernico)

MAKSYMOWICZ, Milosz, Elzbieta Stresses in glass-to-metal seals. Przegl elektroniki 4 no. 2: 65-79 '63. 1. Przemyslowy Instytut Elektroniki, Warszawa.

COUNTRY Poland H-13 CATEGORY ABS. JOUR. : AZKhim., No. 1959, No. 87328 : Maksynowicz-Milosz, E.; Hilgerther, L. AUTHOR INST. : A Survey of the Polish Bulb-savelope Glass TITLE ORIG. PUB.: Szklo i ceramika, 1959, 10, No 3, 68-74 : Characteristics are listed for 22 varieties ABSTRACT of bulb-envelope glass produced in Foland. Substantial defects are noted in the currently adopted classification of bulb-envelope glass. Bibliography 2 references. L. Sedov. CARD:

HORBOWSKA, Hanna; WIELOFOLSKA, Hanna; SKOCZYNSKA, Jamina; WAGGONSKA, Aria; KOLODZIECZYK, Krystyna; LESKI, Behdan; WAKSYMOWICZ, Kalgerzata; TRUCKAKOWICZ, Zefie

Studies on the etiological factor of infantile diarrheas occurring during the fall and winter matths of 1962-1963 in Warsaw. Mod. desumikrobiol. 16 no.2:93-100 '64.

1. Z Miejskiej Stacji San.-Epid. i Miejskiego Szpitata Zalaznego Nr.3 w Warszawie.

L. 2262-66

ACC NR. AP6002072

anisotropy constant and D is the mean diameter of a crystallite. The formula is valid under the assumption of sine-like oscillations of the magnetization vector and agreement with the experimental data is rather good. Orig. art. has: 5 figures, and 15 formulas. [Based on author's abstract.]

SUB CODE: 20/ SUBM DATE: 20May65/ OTH REF: 008/

L 22626-66 EWA(d)/T/EWP(t) IJP(c) JD/06

ACC NR: AP6002072

SOURCE CODE:

PO/0045/65/028/006/0833/0839

AUTHOR: Maksymowicz, Lidia; Maksymowicz, Andrzej

ORG: Department of Physics I, Academy of Mining and Metallurgy, Cracow (Akademiya gorniczo-hutnicza, Katedra fizyki I)

Influence of a magnetic ripple on the reversible susceptibility of thin TITLE:

SOURCE: Acta physica polonica, v. 28, no. 6, 1965, 833-839

TOPIC TAGS: magnetization, saturation magnetization, magnetic field, magnetic susceptibility, reversible susceptibility, permalloy film, cyclol enisetsom

ABSTRACT: (In consideration of magnetization fluctuations, a corrected formula for the reversible susceptibility measured along the hard axis of a thin film is calculated by the simple domain theory and derived as follows:

$$n = M_B \left[H + H_U + \frac{gK^2D^2h}{8\pi \sqrt{2} (J^2h(h+1)^2hA^2h} \right]^{-1}$$

where H is a d-c magnetic field applied along the easy axis, $H_{\mathcal{U}}$ is the uniaxial anisotropy field, $M_{\rm g}$ is the saturation magnetization, U and A are the uniaxial anisotropy constant and exchange integral, respectively, K is the crystalline

MAKSYMOWICZ, Krystyna Amygdaloid complex of the dog. Acta biol. exp. 23 no.2:63-73 163. 1. Department of Comparative Neuroanatomy, Jagiellonian University, Cracow and Laboratory of Neuroanatomy, The Nencki Institute of Experimental Biology, Warsaw 22, Poland.
(AMYGDALOID BODY) (ANATOMY)

MAKSYMOWICZ, Elzhieta

Technology of vacuum-tight seals between mica and glass and between mica and metal by soldering glass. Przegl elektroniki 3 no.ll:652-653 N '62.

1. Przemyslowy Instytut Elektroniki, Warszawa.

KREINER, J.; MAKSYMOWICZ, K.

A three-dimensional model of the striatal nuclei in the dog's brain.

Afta biol. exp. 22 no.1:69-79 '62.

1. Department of Comparative Neuroanatomy, Jagellonian University,

Krakow and Neuroanatomical Laboratory of the Nencki Institute of Experimental Biology, Warsaw.

(GANGLIA BASAL anat & histol)

CIA-RDP86-00513R001031700038-6

L 22626-66 ACC NR: AP6002072 anisotropy constant and D is the mean diameter of a crystallite. The formula is valid under the assumption of sine-like oscillations of the magnetization vector and agreement with the experimental data is rather good. Orig. art. has: 5 figures, and 15 formulas. [Based on author's abstract.] [LD] SUB CODE: 20/ SUBM DATE: 20May65/ OTH REF: 008/ BLG

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700038-6

ACC NRI AP6002072

SOURCE CODE: PO/0045/65/028/006/0833/0839

AUTHOR: Maksymovicz, Lidia; Maksymovicz, Andraej

51

ORG: Department of Physics I, Academy of Mining and Metallurgy, Cracow (Akademiya gorniczo-hutnicza, Katedra fizyki I)

TITLE: Influence of a magnetic ripple on the reversible susceptibility of thin permalloy $f_{1,ms}$

SOURCE: Acta physica polonica, v. 28, no. 6, 1965, 833-839

TOPIC TAGS: magnetization, saturation magnetization, magnetic field, magnetic susceptibility, reversible susceptibility, permalloy film, cayetal enise tropy

ABSTRACT: (In consideration of magnetization fluctuations, a corrected formula for the reversible susceptibility measured along the hard axis of a thin film is calculated by the simple domain theory and derived as follows:

$$n = M_B \left[\frac{eK^2D^{1/2}}{H + H_U + \frac{eK^2D^{1/2}}{\Theta n \sqrt{2}} \frac{U^{1/2}(h + 1)^{1/2}A^{1/2}}{U^{1/2}(h + 1)^{1/2}A^{1/2}} \right]^{-1}$$

where H is a d-c magnetic field applied along the easy axis, H_U is the uniaxial anisotropy field, M_S is the saturation magnetization, U and A are the uniaxial anisotropy constant and exchange integral, respectively, K is the crystalline Cord 1/2

PILECKI, St., MAKSYMOWICZ, A. "Album rysunków technicznych do obróbki ręcznej i mechanicznej w warsztatach szkoinych" (An album of technical drawings for hand machining and mechanical machining in school workshops), by St. Pilecki, A. Maksymowicz. Reported in New Books (Nowe Ksiazki), No. 13, July 1, 1955 MAKSYMONICZ, N.

"Be careful ith technical terminology." p. 433.

(Przeglad Techniczny, Vol. 74, no. 11, Nov. 1953, Warszawa.)

S0: Monthly list of East European Accessions, Vol. 3, No. 3, Library of Congress, March 1954, Uncl.

APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700038-6

MAKSYMIUK, Jan, mgr., inz.

Possibilities of measuring contact resistance by means of small rectified currents. Przegl elektrotechn 37 no.10:407-410 61.

1. Katedra Przyrzadow Rozdzielczych, Politechnika Warszawska.

(Electric resistance)

MAKSYMIUK, Jan, mgr inz. Operational retardation of fade releases cooperating with high voltage circuit breakers. Wiad elektrotechn 19 no.9:264-265 S 159. 1. Katedra Przyrzadow Rozdzielczych, Politechnika, Warszawa.

POL/24-59-8-2/13

Switching Characteristics of the Dry Circuit Breakers, Model N 107-III-40, Under Special Working Conditions

ASSOCIATIONS: Biuro Znaku Przepisowego SEP (Trademark Code Office of SEP), Katedra Przyrządow Rozdzielczych P.W. (Chair of Power Distribution, Polytechnica University of Warsaw).

Card 2/2

8(2)

POL/24-59-8-2/13

AUTHORS:

Lipka, Zygmunt; Morzycki, Witold; Maksymiuk, Jan, Mgr. Engineers

TITLE:

Switching Characteristics of the Dry Circuit Breakers, Model N 107-III-40, Under Special Working Conditions

PERIODICAL:

Wiadomości Elektrotechniczne, 1959, Nr 8, pp 238-240 (POL)

ABSTRACT:

The article describes tests made on the Polish-manufactured circuit breakers of above type, originally constructed for a-c, but to be used with both d-c and a-c loads up to 80 amperes (550 volts a-c, 275 volts d-c) by laboratories testing electrical equipment for quality and for awarding the "Seal of Approval". After extensive tests for reliability and efficiency consisting of 5,000 switching operations (on-off) under full loads (275 volts - 35 amperes, 2,750 volts - 80 amperes, and 550 volts - 80 amperes) it has been found out that they can completely replace the more expensive model "SP" designed for d-c.

Card 1/2

There are 5 circuit diagrams.

<u> APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001031700038-6</u> MAKSYATKINA, N.I. Substance and energy metabolism in heifers fed increased amounts of silage in summer. Trudy VNIIK 3:213-242 '56. (MIRA 10:4) (Cows--Feeding and feeding stuffs) (Ensilage) (Metabolism)

MAKSYAGIN, V.M., inzh. Experience in using optical instruments in centering main engines and shafts. Sudostroenie 24 no.7:65-66 J1 '58.

(Marine engineering) (MIRA 11:9) MAKSYAGIN, V. On the right trail. Pozh. delo 5 no.10:24-25 0 '59. (MIRA 13:2) (Fire departments -- Equipment and supplies)

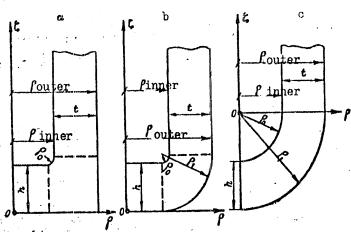
APPROVED FOR RELEASE: 06/23/11:__CIA-RDP86-00513R001031700038-6 MAKSYAGIN, V. Efficiency promoters in Kharkov. Pozh.delo 3 no.5:19 My '57. (MLRA 10:7) (Kharkov--Fire engines)

L 42281-66

ACC NR: AT6014516

set equal to 2, and a study is made of the effect of the geometry of the region of the shell wall where the wall and shell bottom are joined and the effect of the form of the bottom on the stressed state. Three shell models are considered (see Fig. 1).

Fig. 1. Shell geometry with varying bottom form. a - model 1; b - model 2; c - model 3.



A general system of equations is developed, and the tracing of stress path contours is demonstrated for each shell model. Additional discussions are devoted to the rate of development of stress distributions for fixed parameter settings. Orig. art. has: 3 equations and 9 figures.

SUB CODE: 20/ SUBM DATE: 07Apr64/ ORIG REF: 001

Card 2/2 Arah

I 42281-66 EWT(d)/FWT(m)/FWP(w)/FWP(v)/FWP(k) IJP(c) WW/FM
ACC NR: AT6014516 (A,N) SOURCE CODE: UR/2753/65/000/004/0193/0206

AUTHOR: Maksutova, T. D.

ORG: none

260

TITLE: Photoelastic investigation of the effect of the bottom form on the stressed state of thick-walled containers

SOURCE: Leningrad. Universitet. Matematiko-mekhanicheskiy fakul'tet. Issledovaniya po uprugosti i plastichnosti, no. 4, 1965, 193-206

TOPIC TAGS: shell, circular shell, cylindric shell structure, stress analysis, stress distribution, shell deformation

ABSTRACT: A continuation of results is presented on the polarization-optical investigation of thick-walled cylindrical shells. The earlier work was described by T. D. Maksutova (Fotouprugoye issledovaniye tolstostennykh sosudov s ploskim dnishchem. Issledovaniya po uprugosti i plastichnosti. Sb. 3. Izd. LGU, 1964). The aim of the current article is to obtain the most complete description possible of the stressed state as a function of values of parameters characterizing the geometry of shells. Previous work was involved with studying the effect of the ratio of the inner radius R₁ of the cylinder to the outer radius R₂ on the stressed state of a cylindrical shell with a flat circular bottom of constant thickness. In the current article R₁/R₀ is

Card 1/2

MAKSUTOVA, T.D. Photoelasticity of thick-walled vessels with plane bottoms. Issl. po uprug. i plast. no.3:208-224 64. (MIRA 17:6)

CIA-RDP86-00513R001031700038-6 MAKSUTOVA, T.D. Optical and mechanical properties of double copolymers. Issl.
po uprug. i plast. no.2:167-186 '63. (MIRA 16:8)
(Polymers-Optical properties) (Polymers-Elastic properties)

APPROVED FO	SUTOUP T. D	CIA-RDP86-00513R00	01031700038-6
	optical Polarization Nethod (Cont.) 19. England A.I. the of the optical Nethod for Stress Realysis in Milling Several Problems Commerced With Mine Pressure 10. Jacuardan D.E. Investigation of Stress Distribution Around Chambers and Norting Paces 11. Malentows, T.D. Investigation by the "Unilling" School of the Three- Transformal Stress of Stresses of the Serromotor Passon of a Rydraulic- Transformal Stress Analysis by Means of the Optical Polarization and of the Editing State of the Analysis by Means of the Optical Polarization and the Editing State of the Analysis by Means of the Optical Polarization and The Editing State of the Analysis by Means of the Optical Polarization and The Editing State of the Optical Polarization and The Editing State of the Compression of a Code and Cylinder Several Solution of the Optical Polarization of the Optical Polarization and Palenton Praction	components. Compared: The collection contains reports presented at the conference on optical placetim exhods in stress analysis held February 13 - 21, 1959, in polarisation methods in stress analysis held February 13 - 21, 1959, in polarisation methods in stress and process including representatives of the Republic Emphalic of China, the Pollaris Republic, the General Democratic Republic, and the Emphalic of Carechoslovalia. The reports discuss general theoretical and the special methods of investigation and describs experient and attentions, in various branches of special two-discussional methods experiently in the control of stresses in produce of the section analysis and characters, in the control of stresses in produce of the places and externational problems associated with placeticity, over the section of problems associated with placeticity, overly, Advances, bytto-the solution of polyments are produced bere in absorbance form. Superior produced as discountered for the section of problems associated with placeticity, overly, Advances, bytto-the solution of both the produced as discountered. Reports prescribed here in absorbance down. Superioralities are sentimed. Reformed we found to the out of 1) of the reports.	HASE I BOX EXPLOTATION SOT/ACA2 Leningrad. Determide the priority

palarization methods in stress analysis held february 13 - 23, 1985, in lamingred and attended by 19th delegates including representatives of the People's Expaids of Chins, the Polich People's Expaids, the German Encourage Cartes (Expaids), and the Expaids of Coechosloratia. The reports discuss general theoretical problems and new minds of Coechosloratia, and describe apparatus and metalic problems occurring in shiphilities, attractive design, engine one struction, in various of health of the problems occurring in shiphilities, attractive design, and and anticologies of the coechosloration	PRIPOSE: This collection of 58 articles is intended for effective and engineers concerned with experimental effects analysis of machine parts and structural components. COVERAGE: The collection contains reports prescribed at the componence on entirely contains and contains reports prescribed at the componence on entirely contains and contains reports prescribed at the componence on entirely contains and contains are contained at the componence of the contained at the contained at the contained at the componence of the contained at the contain	Resp. Ed.: S.P. Shibbobalov; Ed.: Ye.Y. Shohemelevs; Toth. Ed.: S.D. Vodniagins; Editarial Stati: S.O. Outman, L.M. Kachanov, Y.M. Krasnov, T.D. Makestova, E.L. Frigorovskiy, V.M. Proshko, E.S. Rozmov, and Totl. Edel'shteps.	Polyariastalonco-opticheskiy metod issledoroniya napryucheniy, truly konferentsii 19-21 ferralya 1956 poda (Optical Polarization Method for Stress Acalysis; framactions of the Conference of February 19-21, 1958), [Entigred] Intro-Leningralishogo univ., 1960. 451 p. Erraia alip inserted. 2,400 copies printed.	Lemingrad. Universitet	HELENATION SOOK EXPROSIONALINATION	
palarisation methods in stress analysis held february 33 - 20%, in imitagried and attended by 30% designees including representatives of the Sepublic, Sepublic of China, the Felial Sepublic, the German Democratic Sepublic, and the Republic of Geschosloratia. The reports the German Democratic Sepublic, and the Republic of Geschosloratia. The reports discuss the German democratic states and metal section of the Sepublic of Geschosloration of Sepublic to-discussional and three-dismandant problems occurring in shipbuilding, Attribut design, and the Sepublic of Sepublic of Sepublic design, and and three-dismandant problems are design, pathwarders, principles and described of the Sepublic of the Sep	led for scientists and engineers another parts and structural before the conference on ordinal	evs; Tech. Ed.: 5.D. Vodolagins; V.M. Kraanov, T.D. Makbutova, and Te.I. Edolvahteyn.	apryschenly, trady konferenteil 1 Method for Stress Analysis; 21, 1958). [Leningrad] Isi-ro Lp inserted. 2,400 copies printed		CTON BOY AGE	

The Building of Complex Form Models for the ortical Method 32-2-45/60 of Tension Investigations

tion. A table of suitable alloys is given. The model molds themselves can be cast in plaster. An alloy of 40% Pb, 40% Sn, 20% Sb is said to be of good castability and is recommended for decomposable model molds. The method described makes it possible to construct models with an exactitude of \pm 0.05 mm. There are 2 figures, 2 tables, and 7 references, 4 of which are

Slavic.

ASSOCIATION: Leningrad State University imeni A. A. Zhdanova (Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova)

AVAILABLE: Library of Congress

1. Resins-Molding

Card 2/2

MAKSUTEVA, TO

AUTHORS:

Maksutova, T. D., Shikhobalov, S. P.,

32-2-47/60

TITLE:

The Building of Complex Form Models for the Optical Method of Tension Investigations (Izgotovleniye modeley slozhnykh form dlya opticheskogo metoda issledovaniya napryazheniy)

PERIODICAL:

Zavodskaya Laboratorius, 1958, Vol. 24, Nr 2, pp. 231-233 (USSR)

ABSTRACT:

In order to destroy the edge effect in optically active materials a method of modelling was developed which also renders a mechanical treatment of the finished models unnecessary. The method is based on the casting of synthetic resin in metal molds, and on the out-polymerization of the resin used here. With this attention must be paid to the possibility of the escape of bubbles. A table is given of these synthetic resins that can be used here, and of their specific properties. With a bakelite of casting a strong edge effect could be noticed whilst the best results were given by "expony-resins" with maleic anhydride as hardener. The undecomposable model molds should consist of metal alloys with a narrow melting range (a little above the maximal polymerization temperature of the synthetic resin) so that they can easily be melted off after the resin polymerization.

Card 1/2

124-57-2-2436

Experimental Investigation of the Stresses in a Hydraulic-turbine Blade

to the thickness of the blade profile and subjected to the same thermal and other conditions as the blade model, but free of any external forces. It is shown that in the bakelite used an "edge effect" arises as a result of desiccation, i.e., the separation of component substances, mainly water and phenol, and that a working medium may be found in which the "edge effect" does not occur. In a practical attempt to avoid any "edge effect" the model was loaded in a water-glycerol mixture and was protectively coated with latex. The interpretation of the stress conditions in the blade was performed according to the formulas of three-dimensional photoelasticity. The results lead to the conclusion that the blade, considered as a shell with variable thickness, is subjected to pure moment stresses. A comparison with L. M. Kachanov's solution (Rzh Mekh, 1955, abstract 906) is also adduced.

V. M. Krasnov

1. Turbine blades--Stresses 2. Stress analysis

Card 2/2

124-57-2-2436

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 132 (USSR)

Shikhobalov, S.P., Krasnov, V.M., Maksutova, T.D., Tseyts, AUTHORS:

V. V., Edelishteyn, Ye. I.

Experimental Investigation of the Stresses in a Hydraulic-turbine TITLE:

Blade (Eksperimentalinoye issledovaniye napryazhennogo sosto-

yaniya lopasti vodyanoy turbiny)

PERIODICAL: V sb.; Vopr. prochnosti lopastey vodyanoy turbiny.

Leningrad, Izd-vo LGU, 1954, pp 174-216

Presentation of an experimental investigation of the stresses ABSTRACT:

prevailing in a hydraulic-turbine blade subjected to the action of a pressure uniformly distributed over its working surface. The investigation was conducted by means of the photoelastic method, wherein the model was "frozen" and subsequently sectioned off. The model was made of bakelite; the bakelite resin was cast into a mold made of a readily fusible alloy. The uniform pressure was exerted by means of a system of glass rods located vertically on the working surface of the blade. In the determination of the stresses due to the edge effect, use was made of data on

the "edge effect" in a bakelite wedge having a thickness equal Card 1/2

ZHIRITSKIY, Georgiy Sergeyevich prof. LOKAY, Vaktor Iosifovich;

MAKSUTOVA, Makhfusva Marimovia; STRUNKIN, Valentin

Aleksandrovich; CUROV, A.F., doktor tekhn. nauk, prof.,
retsenzent; KHOLSHCHEVNIKOV, K.V., doktor tekhn. nauk,
prof., retsenzent; KULAGIN, I.I., doktor tekhn. nauk,
prof., retsenzent; LEPESHINSKIY, I.A., insh., red.; BOGOMOLOVA,
M.F., red.izd-va; NOVIK, A.Ya., tekhn. red.

[Gas turbines of alrcraft, engines] Gazovye turbiny aviatsionnykh dvigatelei. Moskva, phorongiz, 1963. 604 p.

(MIRA 16:9)

(Gas turbines) (Airmanes—Engines)

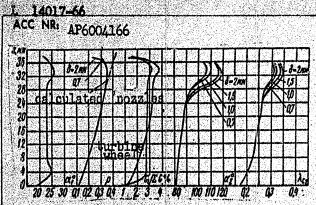


Fig. 2. Radial profiles with type
II blades

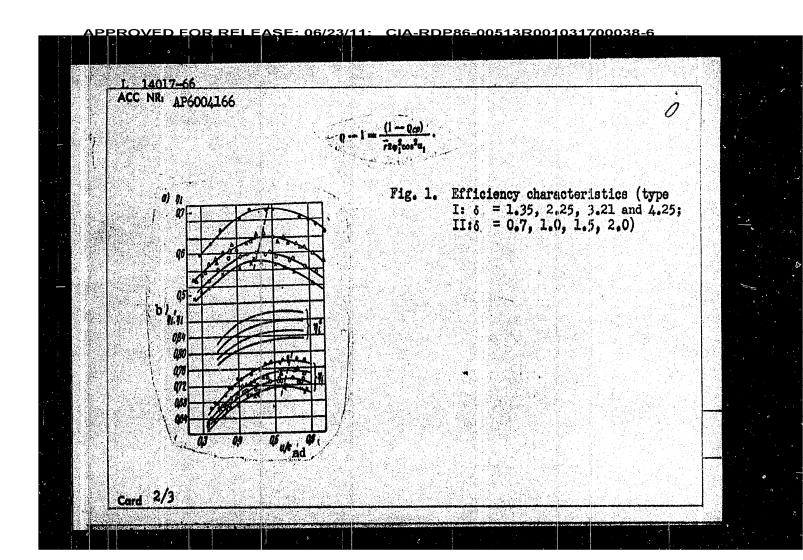
0

The maximum efficiency as a function of radial clearance is shown graphically. The experimental results were compared with those obtained by calculations from equations proposed by A. M. Zavadovskiy (Osnovy proyektirovaniya protochnoy chasti parovykh i gazovykh turbin, Mashglz, 1960) and by others. The calculated and experimental quantity G./G (where G. = flow through the radial clearance) is also shown graphically.

Orig. art, has: 5 figures, 1 table, and 2 formulas.

SUB CODE: /O/ SUBM DATE: none/ ORIG REF: OO4/ OTH REF: OO1/ ATD PRESS: 4/96

Card 3/3 AC



1 14017-66 ENT(1)/HWT(m)/HWP(w)/HWP(f)/HWP(y)/T-2/HWP(k)/ETC(m)-6 JD/WW/EM

CC NW AF6004166 SOURCE CODE: UR/0114/66/000/001/0028/0030

AUTHORS: Zanadvorova, V. N. (Candidate of technical science, Docent); Maksutova, M. K. (Candidate of technical science, Docent)

ORG: none

64 B

TITLE: Effects of radial clearance on turbine characteristics

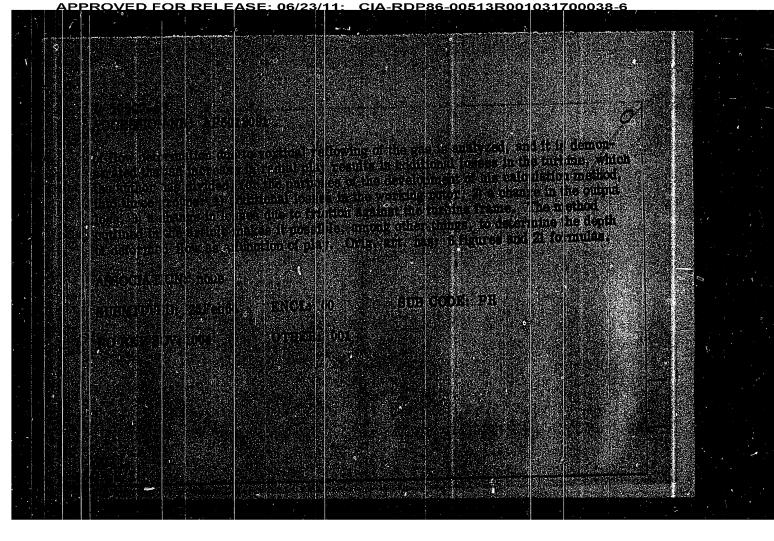
SOURCE: Energomashinostroyeniye, no. 1, 1966, 28-30

TOPIC TAGS: turbine efficiency, turbine design, turbine, turbine blade, turbo-machinery

ABSTRACT: Experiments were performed at the <u>Kazan' Aviation Institute</u> on two types of blades' to determine the effects of radial clearance on <u>turbine</u> characteristics. The characteristics were obtained as functions of speed and of radial clearance (to 5/t = 95), and radial and circumferential flow profiles were obtained at the turbine wheel inlet and outlet. Efficiency as a function of speed and radial clearance for the two types of blades is shown in Fig. 1. Circumferential profiles at 4 radial positions were found to be essentially unaffected by the radial clearance. The radial profiles of a_1 , reactivity ρ , specific flow rate G/EG, a_2 , and dimensionless speed λ a_2 for one type of blade are shown in Fig. 2 for various radial clearances. The degree of reaction was also calculated from

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that the comparison of turbine operation on gases with different adiabatic indices k should be made in regimes having similar velocity triangles. In this case the values of the efficiency and reactivity remain unchanged. The similarity of velocity triangles may be maintained only at subcritical flow regimes. Strictly speaking, the similarity is only slightly disturbed in the case of supercritical regimes. The difference does not exceed 1% in the case of the efficiency coefficient. Orig. art. has: 10 formulas.

ASSOCIATION: Kazanskiy aviatsiomyky institut (Kazan Aviation Institute)

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OTHER: 000

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ACCESSION NR: AP4042617

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AUTHOR: Maksutova, N. K. (Candidate of technical sciences)

TITLE: Influence of the adiabatic index k on turbine characteristics

SOURCE: Teploenergetika, no. 8, 1964, 29-33

TOPIC TAGS: turbine test, turbine operation medium, adiabatic index, aviation turbine

ABSTRACT: The influence of the properties of the working medium on the operation of a turbine is evaluated and the transfer of the results of turbine tests obtained with one medium to the actual operating medium is analyzed on the basis of the similitude theory. An analytical method is proposed to account for the influence of the adiabatic index k in various regimes of the turbine. The adiabatic index k is, together with the viscosity and gas constant, one of the basic characteristics of the operating gases which influence the regimes of the turbine. It is assumed that the velocity coefficients ϕ and ψ and the flow direction in the interblade channels are independent of the gas composition. This analysis leads to the conclusion

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processes in gas turbines (different modifications), thermodynamic and gas dynamic calculations for nominal and variable operating conditions, cooling systems used for the hot parts of the turbine, turbine design and construction, and strength calculations. The book is based on a 1950 text "Aviation Gas Turbines" by Professor G. S. Zhiritskiy, on work by Soviet and other scientists, and on findings of the Turbine-Machinery staff of the Kazan Aviation Institute, who rendered great help in planning the book. The authors are also grateful to Professors A. F. Gurov, I. I. Kulagin, and K. V. Kholshchevnikov for many useful hints during the review of the book.

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BOOK EXPLOITATION

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Zhiritskiy, Georgiy Sergeyevich (Professor); Lokay, Viktor Iosifovich Maksutova, Makhfuzya Karimovna; Strunkin, Valentin Aleksandrovich

Gas turbines of aircraft engines (Gazovy*ye turbiny* aviatsionny*kh dvigateley) Moscow, Oborongiz, 63. 0608 p. illus., biblio., graphs. 9,000 copies printed.

TOPIC TAGS: gas turbine, aviation turbine, gas turbine aerodynamics, gas turbine thermodynamics, gas turbine design, gas turbine construction, gas turbine strength calculation, gas turbine operation

PURPOSE AND COVERAGE: This is a systematized textbook on gas turbines for aviation higher technical institutions and can be used at the same time by gas-turbine designers. It contains the theory, methods of calculations, and a review of constructions of gas turbines employed in aviation gas-turbine and liquid-fuel-jet engines, and also in auxiliary aircraft engines. It deals with the working

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MAKSUTOVA, M.K. (Kazan*) Joint operation of a turbine and compressor in a turbojet engine.
Trudy KAI 38:257-274 8. (MIRA 16:8) (Gas turbines)

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Characteristics of a Gas Turbine Determined from Test Results with a Small Heat Drop

the blading also alters. Therefore, before the adjustments are made, it is necessary to determine which operating conditions of the turbine correspond to critical velocity of flow at discharge from the nozzle or runner blades. If critical conditions are found to occur first in the runner, the maximum flow is determined from the limiting value of the referred flow speed at discharge from the nozzle, which can itself be found from the inlet velocity triangle. There are 1 figure and 3 Soviet references.

ASSOCIATION: Kazanskiy aviatsionnyy institut (Kazan Aviation Institute)

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